

### WEST

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#### Search Results - Record(s) 1 through 7 of 7 returned.

1. Document ID: US 6336128 B1

L2: Entry 1 of 7

File: USPT

Jan 1, 2002

US-PAT-NO: 6336128

DOCUMENT-IDENTIFIER: US 6336128 B1

TITLE: Data-processing-aided electronic control system for a motor vehicle

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME DEX Suessen Eisenmann; Joachim DEX Kornwestheim Huber; Martin DEX Esslingen Lanches; Philipp DEX Ebersbach Aminger; Hans-Juergen Metzingen DEX Koehn; Matthias

US-CL-CURRENT: 709/200; 709/201, 713/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw, D	eso Ir	nage									

#### 2. Document ID: US 6226544 B1

L2: Entry 2 of 7

File: USPT

May 1, 2001

US-PAT-NO: 6226544

DOCUMENT-IDENTIFIER: US 6226544 B1

TITLE: Living body internal active source estimation apparatus

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Yamazaki; Toshimasa Tokyo JPX
Kamijyo; Kenichi Tokyo JPX
Kiyuna; Tomoharu Tokyo JPX

US-CL-CURRENT:  $\underline{600}/\underline{408}$ ;  $\underline{324}/\underline{200}$ ,  $\underline{324}/\underline{210}$ ,  $\underline{324}/\underline{212}$ ,  $\underline{324}/\underline{307}$ ,  $\underline{324}/\underline{308}$ ,  $\underline{324}/\underline{309}$ ,  $\underline{600}/\underline{409}$ ,  $\underline{600}/\underline{524}$ 

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC |
Draw, Desc | Image |

3. Document ID: US 5877811 A

L2: Entry 3 of 7

File: USPT

Mar 2, 1999

US-PAT-NO: 5877811

DOCUMENT-IDENTIFIER: US 5877811 A

TITLE: Interchangeable lens type camera apparatus

DATE-ISSUED: March 2, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Iijima; Ryunosuke

Ebina

JPX

Mabuchi; Toshiaki

Tama

JPX

Ohta; Seiya

Yokohama

JPX

US-CL-CURRENT: 348/375; 348/220, 348/373, 396/71

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |
Draw, Desc | Image |

KWIC

4. Document ID: US 5680784 A

L2: Entry 4 of 7

File: USPT

Oct 28, 1997

US-PAT-NO: 5680784

DOCUMENT-IDENTIFIER: US 5680784 A

TITLE: Method of controlling form of strip in rolling mill

DATE-ISSUED: October 28, 1997

INVENTOR-INFORMATION:

COUNTRY ZIP CODE STATE CITY NAME JPX Chiba Tateno; Junichi JPX Chiba Asano; Kazuya JPX Chiba Kaji; Takayuki JPX Chiba Hoshino; Masashi JPX Chiba Tsuzuki; Satoshi JPX Kobe Shiozumi; Motoji JPX Kobe Kamimaru; Akinobu JPX Chiba Osaka; Chikara

US-CL-CURRENT:  $\frac{72}{8.7}$ ;  $\frac{72}{11.7}$ ,  $\frac{72}{365.2}$ 

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC |
Draw Desc Image

☐ 5. Document ID: US 5649180 A

L2: Entry 5 of 7

File: USPT

Jul 15, 1997

DATE-ISSUED: July 21, 1992

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Yamamoto; Jun

Hamamatsu

JPX

US-CL-CURRENT: 84/19; 84/462

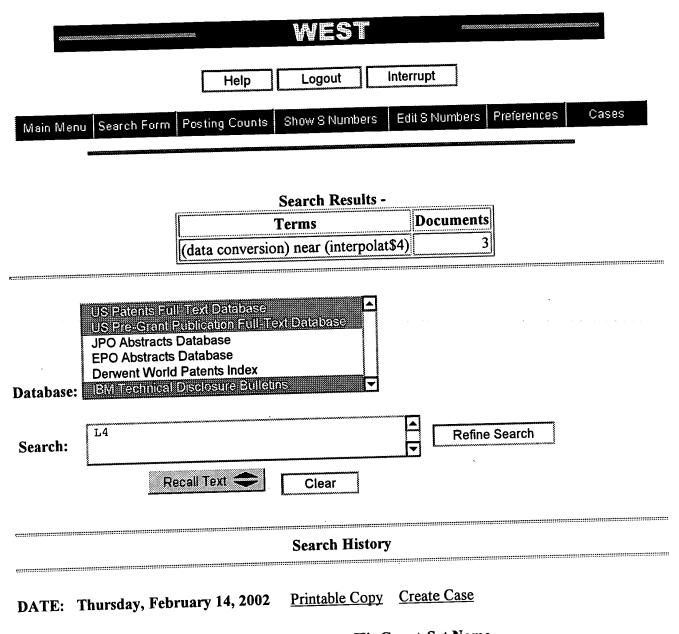
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	(data conversion) near (look-up table)	9	<u>L3</u>
	(data conversion) near (normaliz\$5)	7	<u>L2</u>
<u>L2</u>	data conversion	6235	<u>L1</u>
<u>L1</u>	gata conversion		

**Generate Collection** 

Print

## Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 4805034 A

L4: Entry 1 of 3

File: USPT

Feb 14, 1989

US-PAT-NO: 4805034

DOCUMENT-IDENTIFIER: US 4805034 A

TITLE: Color video signal transmission system

DATE-ISSUED: February 14, 1989

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Kitamura; Hiroyuki

Hiratsuka Yokosuka

JPX JPX

Ota; Yoshihiko

US-CL-CURRENT: 386/34; 386/36

Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments

KWIC

2. Document ID: US 4780769 A

L4: Entry 2 of 3

File: USPT

Oct 25, 1988

US-PAT-NO: 4780769

DOCUMENT-IDENTIFIER: US 4780769 A

TITLE: Recording and reproducing apparatus for time compressed video signals wherein said signals are expanded and converted into two separate channels before recording

DATE-ISSUED: October 25, 1988

INVENTOR-INFORMATION:

COUNTRY ZIP CODE STATE CITY NAME JPX Kanagawa Numakura; Toshihiko JPX Kanagawa Kanouta; Keiji JPX Kanagawa Mizuta; Masashi JPX Tokyo Ishimaru; Masayoshi JPX Saitama Nagai; Michio

US-CL-CURRENT: 386/20; 386/33

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw, Desc Image

3. Document ID: US 4632579 A

L4: Entry 3 of 3

File: USPT

Dec 30, 1986

US-PAT-NO: 4632579

DOCUMENT-IDENTIFIER: US 4632579 A

TITLE: Printing system in dot printer

DATE-ISSUED: December 30, 1986

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Tokyo Takano; Hirokuni

Tokyo

JPX JPX

Shimizu; Tadao Izaki; Osamu

Tokyo

JPX

US-CL-CURRENT:  $\frac{400}{124.07}$ ;  $\frac{101}{93.04}$ ,  $\frac{358}{1.9}$ 

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC Draw Desc Image Print **Generate Collection Documents Terms** 3 (data conversion) near (interpolat\$4)

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# **Derivatives**

#### **History of the Derivative**

The derivative has two basic facets, the geometric and the computational. In addition, the applications of the derivative are manifold: the derivative plays many important roles in mathematics itself; it has uses in physics, chemistry, engineering, technology, sciences, economics, and much more, and new applications are devised every day.

The origin of the derivative resides in the classical geometric *tangent* problems, e.g., to determine a straight line that intersects a given curve in only one given point. <u>Euclid</u> (ca. 300 B.C.) proved the familiar high school geometry theorem to the effect that the line tangent to a circle at any point *P* is perpendicular to the radius at *P*. <u>Archimedes</u> (287--212 B.C.) had a procedure for finding the tangent to his spiral. And Apollonius (ca. 262--190 B.C.) described methods, all somewhat different, for determining tangents to parabolas, ellipses, and hyperbolas. But these were just geometric problems that were studied for their own very limited interests; the ancient Greeks did not perceive any common thread or other value to these theorems.

Problems of motion and velocity, also basic to our understanding of the derivative today, also originated with the ancient Greeks, although these questions were originally treated more philosophically than mathematically. The four paradoxes of Zeno (ca. 450 B.C.) hinge on difficulties with understanding *instantaneous velocity* without having a grasp of the derivative. In the *Physics* of <u>Aristotle</u> (384--322 B.C.), motion problems are closely associated with ideas of continuity and the infinite (i.e. infinitely small and infinitely large magnitudes). In medieval times, Thomas Bradwardine (1295--1349) and his colleagues at Merton College, Oxford, made the first efforts to transform some of Aristotle's ideas about motion into quantitative statements. In particular, the notion of instantaneous velocity became measurable, at least in theory; today, it is the derivative (or rate of change) of the distance with respect to the time.

It was <u>Galileo Galilei</u> (1564--1642) who established the principle that mathematics was the indispensable tool for studying motion and, in general, science: "Philosophy [science and nature] is written in that great book which ever lies before our eyes – I mean the universe – but we cannot understand it if we do not first learn the language .... The book is written in the mathematical language ...." Galileo studied motion geometrically; he used the classical proportionalities of Euclid and properties of the conics from Apollonius to derive relationships among distance, velocity, and acceleration. Today, these variable quantities are basic applications of the derivative.

Interest in tangents to curves reappeared in the  $17^{th}$  century as a part of the development of analytic geometry. Because equations were then used to describe curves, the number and variety of curves increased tremendously over those studied in classical times. For instance, Pierre Fermat (1601--1665) was the first to consider the idea of a whole family of curves at once. He called these higher parabolas, curves of the form,  $y = kx^n$ , where k

is constant and n=2,3,4,... The introduction of algebraic symbols as a tool for studying the geometry of curves contributed significantly to the development of the derivative, the integral, and calculus. On the other hand, because correct geometric results and conclusions could be attained more easily using algebra than by geometric reasoning, the standards of logical rigor that had been pioneered by the ancient Greeks were relaxed in many calculus problems, and this (among other factors) led to some spirited and even bitter controversies. Fermat devised an algebraic procedure that he called adequality to determine the highest (maximum) and the lowest (minimum) point(s) on a curve; geometrically, he was finding the point(s) where the tangent to the curve had slope zero.

René Descartes (1596--1650) had the insight to foresee the importance of the tangent when, in his Geometry, he wrote, "And I dare say that this [finding the normal, or perpendicular to a curve, from which we can easily find the tangent] is not only the most useful and general problem in geometry that I know, but even that I have ever desired to know." Descartes devised a double root procedure for finding the normal and thus the tangent to a curve. As a result of the translation of Descartes' Geometry into Latin by Frans van Schooten (1615--1661) and the extensive explanations by van Schooten, Florimonde de Beaune (1601--1652) and Johan Hudde (1628-1704), the principles and benefits of analytic geometry became more widely known. In particular, Hudde simplified Descartes' double root technique to determine maximum and minimum points on a curve; the double root procedure was rediscovered by Christiaan Huygens (1629-1695). Then, by modifying Fermat's tangent process, Huygens devised a sequence of algebraic steps that produced the inflection point(s) of a curve; we will see that this requires the second derivative. René François de Sluse (1622--1685) derived an algebraic technique that led to the slope of the tangent to a curve. In the late 1650s, there was a good deal of correspondence between Huygens, Hudde, van Schooten, Sluse, and others concerning tangents of many algebraic curves; Hudde and Sluse especially sought simpler and standardized algebraic methods that could be applied to a greater variety of curves. For Gilles Personne de Roberval (1602--1675), a curve was the path of a moving point, and he derived a mechanical method for finding the tangent to many curves, including the cycloid. But Roberval's method could not be generalized to include more curves.

<u>Isaac Newton</u> (1642--1727) began developing his "fluxional calculus," among his earliest scientific endeavors in 1663. For Newton, motion was the "fundamental basis" for curves, tangents, and related calculus phenomena, and he derived his *fluxions* from Hudde's version of the double root procedure. Newton extended this technique as a method for finding the *curvature* of a curve, a feature that we now know is an application of the second derivative. In 1666, 1669, and 1671, Newton summarized and revised his calculus work, and these manuscripts were circulated among a good number of his colleagues and friends. Yet, though he continued to return to calculus problems at various times later in his scientific life, Newton's calculus works were not published until 1736 and 1745.

With some tutoring and advice from Huygens and others, <u>Gottfried Wilhelm Leibniz</u> (1646--1716) developed his differential and <u>integral</u> calculus during the years 1673--1676 while he was living as a diplomat in Paris. On a short trip to London, where he attended a meeting of the Royal Society in 1673, Leibniz learned of Sluse's method of finding tangents to algebraic curves. Leibniz had little inclination to derive these rules and even less interest in the mathematical foundations (i.e., limits) required, but he did perfect the modern formulas and notation for the derivative in his famous paper, "New methods for maximums and minimums, as well as tangents, which is neither impeded by fractional nor irrational quantities, and a remarkable calculus for them." (1684)

Here is the first published work in *calculus* and in fact the first use of the word "calculus" in the modern sense. Now, anyone could solve tangent problems without mastering geometry, one could simply use the "calculus" of Leibniz's formulas.

Newton and Leibniz are sometimes said to have "invented" the calculus. As we can see, that is very much of an oversimplification. Rather, as Richard Courant (1888--1972) wisely observed, calculus has been "a dramatic intellectual struggle which has lasted for 2500 years." After 1700, circumstances led to one of the saddest and most disgraceful episodes in all of the history of science: the priority dispute between Leibniz and Newton, and even more between their followers, over who should receive credit for the calculus. Each made major contributions to the derivative, the integral, infinite series, and most of all to the Fundamental Theorem of Calculus. The charges of plagiarism and other ugly attacks were irrelevant to the mathematics done by each man, but the accusations and counter-slurs escalated into schisms between mathematicians and scientists in England (loyal to Newton) and on the European continent (followers of Leibniz) which for more than a century even led to nationalistic xenophobia.

The first book on the differential calculus was *Analysis of Infinitely Small Quantities for the Understanding of Curved Lines* (1696) by the Marquis de l'Hospital (1661--1704). Much of this work was actually due to Johann Bernoulli (1667--1748) and followed Leibniz's treatment of derivatives, maximums, minimums and other analyses of curves. But l'Hospital's method of determining the radius of curvature was very similar to that of Newton. Jakob Bernoulli (1654-1705) and his younger brother Johann led the way in spreading the word about the power of Leibniz's calculus formulas by proposing and solving several challenging problems (the *catenary* problem and the *brachistochrone* problem are two examples) for which calculus was required. Leibniz, Newton, and Huygens also solved these problems. These problems and others led to the development of <u>differential equations</u> and <u>calculus of variations</u>, whole new fields of mathematics dependent upon calculus.

In England, <u>Thomas Simpson's</u> (1710--1761) New *Treatise of Fluxions* (1737) provided the first derivative of the sine function. In 1734, <u>Bishop George Berkeley</u> (1685--1753) published *The Analyst*, a scathing attack on Newton's lack of rigorous foundations for his fluxions. Berkeley acknowledged the accuracy of Newton's formulas and correctness of their far-reaching applications in physics and astronomy, but he criticized the "infinitely small quantities" and the "evanescent increments" of the foundations of the derivative. <u>Colin Maclaurin</u> (1698--1746) tried to defend Newton in his *Treatise of Fluxions* (1742), and he derived derivatives for logarithms and exponentials and expanded Simpson's formulas to include the derivatives of the tangent and the secant.

On the continent, Maria Agnesi (1718--1799) followed Leibniz and L'Hospital in her calculus book, Analytical Institutions (1748). Leonhard Euler (1707--1783) took a major step toward establishing a firmer foundation for calculus in his Introduction to the Analysis of the Infinite (1748) when he introduced functions (as opposed to curves) as the objects to which the derivative and the other techniques of the calculus would be applied. By function, Euler meant some kind of an "analytic expression;" his conception was not so broad as our modern definition. In this publication, he also introduced the term analysis as a modern name for calculus and related higher mathematics. In his Methods of Differential Calculus (1755), Euler defined the derivative as "the method of determining the ratios of the evanescent increments which functions receive to those of the

evanescent increments of the variable quantities, of which they are the functions," which sounds very unscientific today. Even so, Euler dealt with several special cases of the chain rule, he introduced differential equations, and he treated maximums and minimums without using any diagrams or graphs. In 1754, in the famous French Encyclopédie, Jean le Rond d'Alembert (1717--1783) asserted that the "most precise and neatest possible definition of the differential calculus" is that the derivative is the limit of certain ratios as the numerators and denominators get closer and closer to zero, and that this limit produces certain algebraic expressions that we call the derivative.

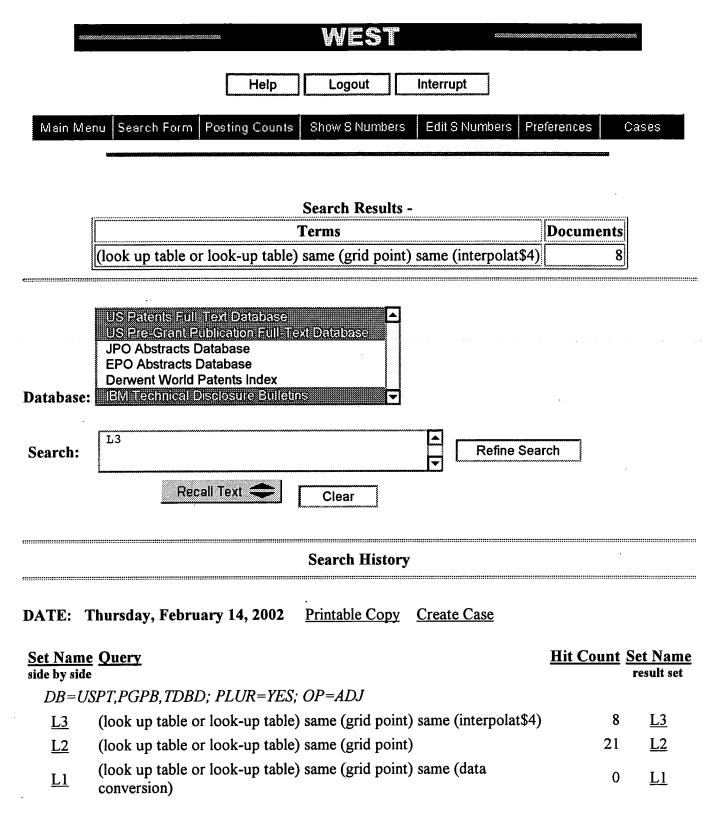
At the end of the 18<sup>th</sup> century, <u>Joseph Louis Lagrange</u> (1736--1813) attempted to reform calculus and make it rigorous in his *Theory of Analytic Functions* (1797). Lagrange intended to give a purely algebraic form for the derivative, without any recourse to geometric intuition or graphs or diagrams and without any help from d'Alembert's limits. Lagrange did invent the prime notation we now use for derivatives, and the logical development of his calculus was admirable in other respects, but his effort to provide a firm foundation for the calculus failed because his conception of the derivative was based on certain properties of <u>infinite series</u> which we now know are not true.

Finally, in the early years of the 19<sup>th</sup> century, the modern definition of the derivative was given by <u>Augustin Louis Cauchy</u> (1789--1857) in his lectures to his engineering students. In his *Résumé of Lessons given at l'Ecole Polytechnique in the Infinitesimal Calculus* (1823), Cauchy stated that the *derivative* is:

the limit of [f(x+i)-f(x)]/i as i approaches 0. The form of the function which serves as the limit of the ratio [f(x+i)-f(x)]/i will depend on the form of the proposed function y = f(x). In order to indicate this dependence, one gives the new function the name of derived function.

Cauchy went on to find derivatives of all the elementary functions and to give the chain rule. Of equal importance, Cauchy showed that the Mean Value Theorem for derivatives, which had appeared in <u>Lagrange's</u> work, was actually the cornerstone for proving a number of basic calculus theorems that had been taken for granted, e.g., descriptions of increasing and decreasing functions. Derivatives and the differential calculus were now established as a rigorous and modern part of calculus.





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#### Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 6222648 B1

L3: Entry 1 of 8

File: USPT

Apr 24, 2001

US-PAT-NO: 6222648

DOCUMENT-IDENTIFIER: US 6222648 B1

TITLE: On line compensation for slow drift of color fidelity in document output

terminals (DOT)

DATE-ISSUED: April 24, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Wolf; Barry M.

Yorktown Heights

NY

Castelli; Vittorio R.

Yorktown Heights

NY NY

Solcz; Edward J.

Yorktown Heights

ghts NY

US-CL-CURRENT: 358/504; 358/501

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw, D	eso Ir	nage									

2. Document ID: US 6204939 B1

L3: Entry 2 of 8

File: USPT

Mar 20, 2001

US-PAT-NO: 6204939

DOCUMENT-IDENTIFIER: US 6204939 B1

TITLE: Color matching accuracy inside and outside the gamut

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Lin; Tsung-Nan

San Jose

CA

Shu; Joseph

San Jose

CA

US-CL-CURRENT: 358/518; 358/1.9, 358/504

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw Desc | Image |

3. Document ID: US 6178007 B1

ZIP CODE

Record List Display

L3: Entry 3 of 8

File: USPT

Jan 23, 2001

US-PAT-NO: 6178007

DOCUMENT-IDENTIFIER: US 6178007 B1

TITLE: Method for continuous incremental color calibration for color document output

terminals

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Harrington; Steven J.

Webster

NY

US-CL-CURRENT: 358/1.9; 358/518



KWIC

4. Document ID: US 6023351 A

L3: Entry 4 of 8

File: USPT

Feb 8, 2000

US-PAT-NO: 6023351

DOCUMENT-IDENTIFIER: US 6023351 A

TITLE: Regularized printer LUT with improved accuracy

DATE-ISSUED: February 8, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Newman; Todd

Palo Alto

CA

US-CL-CURRENT: 358/524; 358/522, 358/523, 358/530



KARAC

5. Document ID: US 5883821 A

L3: Entry 5 of 8

File: USPT

Mar 16, 1999

US-PAT-NO: 5883821

DOCUMENT-IDENTIFIER: US 5883821 A

TITLE: Data transformation system performing data transformation employing

interpolating operation

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

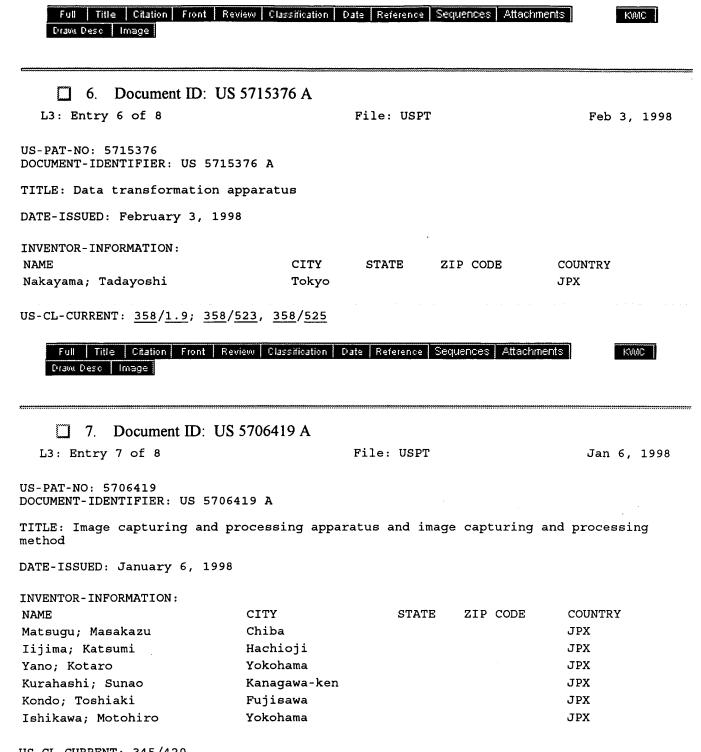
COUNTRY

Komaki; Takeshi

Yokohama

JPX

US-CL-CURRENT: 708/290; 358/525



US-CL-CURRENT: 345/420

Full	Title	Citation	Front	Review			Sequences	Attachments	KWIC
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8. Document ID: US 4650926 A

L3: Entry 8 of 8

File: USPT

Mar 17, 1987

US-PAT-NO: 4650926

DOCUMENT-IDENTIFIER: US 4650926 A

TITLE: Electrographic system and method

DATE-ISSUED: March 17, 1987

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Nakamura; Shoichiro

Kable; Robert G.

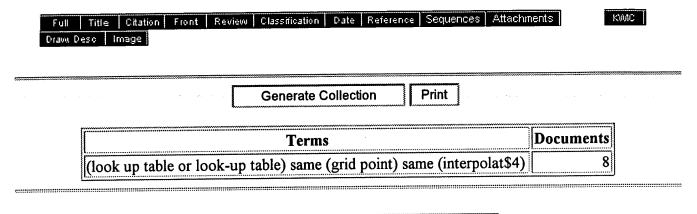
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Dublin

OH

US-CL-CURRENT: <u>178/18.02</u>; <u>178/18.05</u>, <u>178/20.03</u>, <u>345/178</u>

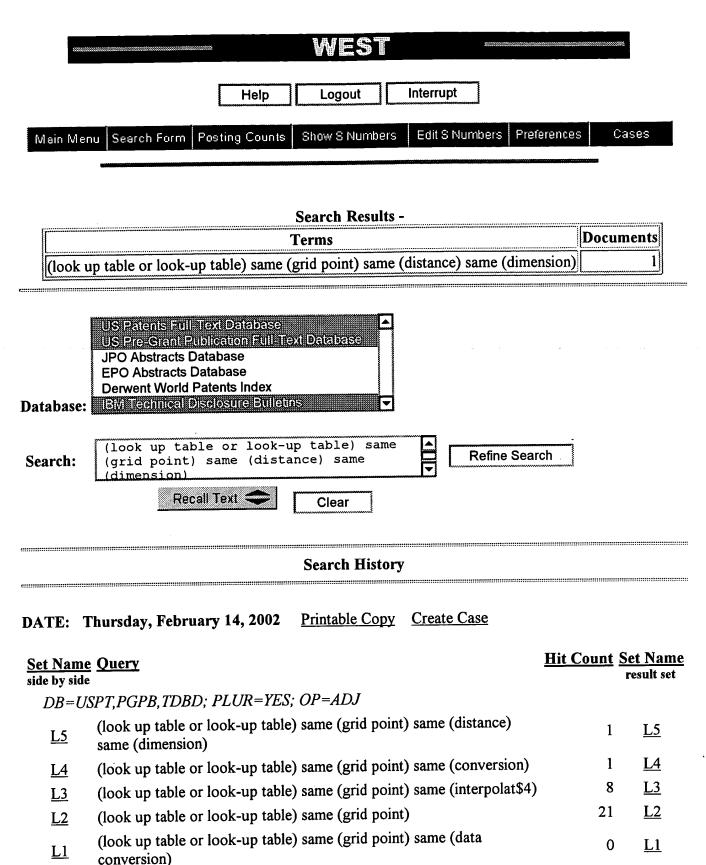


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## Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 5706419 A

L4: Entry 1 of 1

File: USPT

Jan 6, 1998

US-PAT-NO: 5706419

DOCUMENT-IDENTIFIER: US 5706419 A

TITLE: Image capturing and processing apparatus and image capturing and processing

method

DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

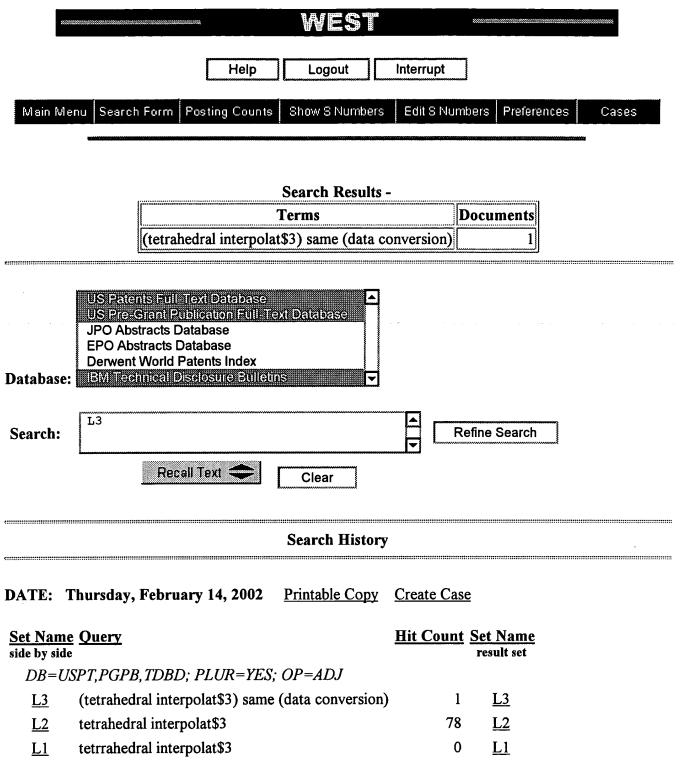
NAME	CITY	STATE	ZIP CODE	COUNTRY
Matsugu; Masakazu	Chiba			JPX
Iijima; Katsumi	Hachioji			JPX
Yano; Kotaro	Yokohama			JPX
Kurahashi; Sunao	Kanagawa-ken			JPX
Kondo; Toshiaki	Fujisawa			JPX
Ishikawa; Motohiro	Yokohama			JPX

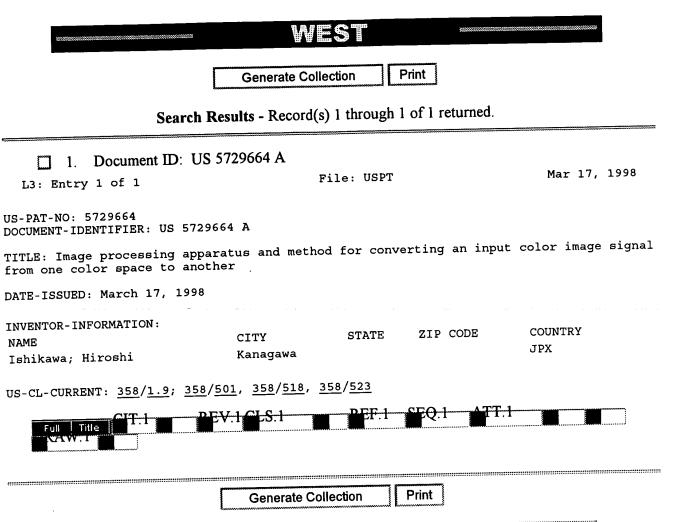
US-CL-CURRENT: 345/420

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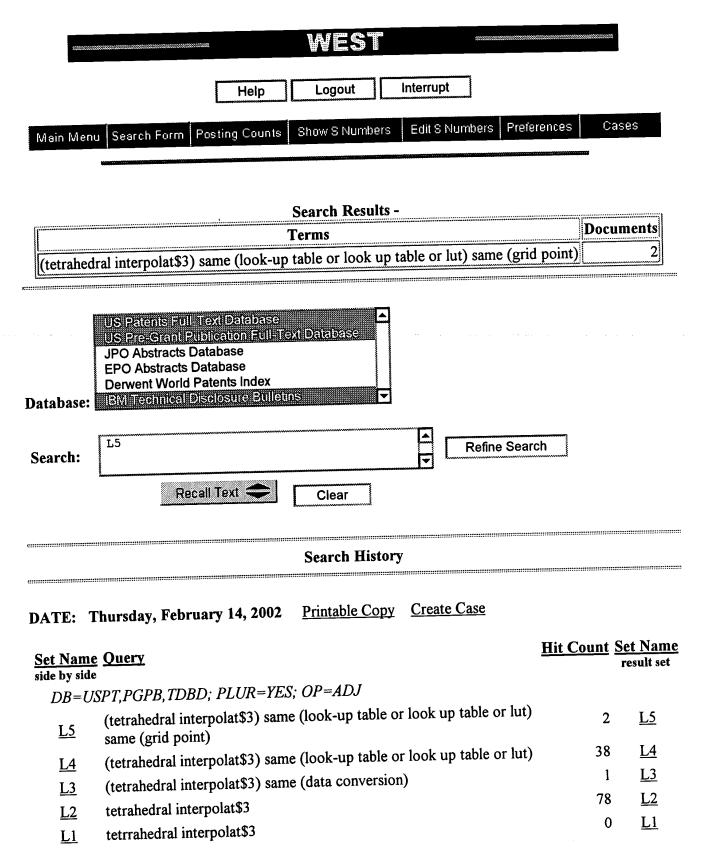
**Terms** 

(tetrahedral interpolat\$3) same (data conversion)

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**Documents** 

1



**Generate Collection** 

**Print** 

# Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6023351 A

L5: Entry 1 of 2

File: USPT

Feb 8, 2000

US-PAT-NO: 6023351

DOCUMENT-IDENTIFIER: US 6023351 A

TITLE: Regularized printer LUT with improved accuracy

DATE-ISSUED: February 8, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

CA

ZIP CODE

COUNTRY

Newman; Todd

Palo Alto

US-CL-CURRENT: 358/524; 358/522, 358/523, 358/530

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draww Desc - Image

2. Document ID: US 5592591 A

L5: Entry 2 of 2

File: USPT

Jan 7, 1997

US-PAT-NO: 5592591

DOCUMENT-IDENTIFIER: US 5592591 A

TITLE: Reduced storage of pre-computed difference tables used in color space conversion

DATE-ISSUED: January 7, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

KWC

Rolleston; Robert J.

Penfield

US-CL-CURRENT: 358/1.5; 358/518

Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments |

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-	Terms	Documents
-	(tetrahedral interpolat\$3) same (look-up table or look up table or lut)	2
	same (grid point)	<u> </u>

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#### US 093429170AP1



Creation date: 08-11-2004

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